RATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): John S. Yates, Jr., et al.

Serial No.:

09/429,094

Art Unit: 2155

Filed: October 28, 1999 Examiner: David Eng

Title:

SIDE TABLES ANNOTATING AN INSTRUCTION STREAM

COMMISSIONER FOR PATENTS

RFCEIVED

P.O. Box 1450

OCT 3 0 2003

Alexandria, VA 22313-1450

Technology Center 2100

PETITION FOR EXTENSION OF TIME

Applicant petitions for a one-month extension of time to respond to the Examiner's paper of 8/22/03. Kindly charge the petition fee of \$110.00 to Deposit Account 23-2405, Order No. 114596-16-4004C.

INFORMATION DISCLOSURE STATEMENT

In accordance with 37 C.F.R. §§1.56, 1.97 and 1.98, Applicant wishes to make of record the items listed on the accompanying Form PTO-1449. Applicant respectfully requests the Examiner to fully consider the items and independently ascertain their teaching before issuance of the next action, and to make them of record in the file. The Examiner is also requested to initial and return a copy of the enclosed Form PTO-1449 to evidence such consideration.

The references listed on the enclosed Form 1449 are references that have come to light in applications listed in the Information Disclosure Statement of November-December 2000. Applicant has not reviewed all of them in detail. Of those that have been reviewed, none of the references are believed to be any more pertinent than the references provided in earlier IDS' and Forms 1449. However, in an abundance of caution, Applicant requests that they be considered.

This Form 1449 is cumulative of all previous Forms 1449 for which a checked-off copy has not yet been received. In addition, this Form 1449 includes references made of record in related applications and not previously listed on any previous Form 1449 in this application.

10/28/2003 KBETEMA1 00000077 232405

01 FC:1251

110.00 DA

I certify that this correspondence, along with any documents referred to therein, is being deposited with the United States Postal Service on October 22, 2003 as First Class Mail in an envelope with sufficient postage addressed to The Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450..

09/429,094

Information Disclosure Statement

Pursuant to 37 C.F.R. § 1.98(d), Applicant notes that copies of all non-patent items listed on the enclosed Form PTO-1449 for which a copy is not already made of record in this application, were previously cited by or submitted to the Patent and Trademark Office in application Serial No. 09/239,194, filed January 28, 1999, Yates et al., Executing Programs for a First Computer Architecture on a Computer of a Second Architecture. It is believed that the '194 application will contain copies of all such references. Nonetheless, pursuant to 37 C.F.R. § 1.98(d) the examiner is requested to review the files of application Serial No. 09/322,443, filed May 28, 1999, Reese et al., Profiling of Computer Programs Executing in Virtual Memory Systems, or in application Serial No. 09/385,394, filed August 30, 1999, Yates et al., Computer for Executing Two Different Instruction Sets, or in application 09/626,325, filed July 26, 2000, Yates, et al., Computer with Two Operating Systems for any references not in the '194 file.

No fee is due for this Information Disclosure Statement since it is being filed in compliance with 37 C.F.R. §1.97(b)(3), to the knowledge of the undersigned, before the mailing date of a first Office Action on the merits.

The Commissioner is hereby authorized to charge any additional fees that may be required for this Information Disclosure Statement, or credit any overpayment, to Deposit Account 23-2405, Order No. 114596-16-4004C.

Respectfully submitted,

WILLKIE FARR & GALLAGHER, LLP

Dated: October 22, 2003

David E. Boundy Registration No. 36,461

Mailing Address: WILLKIE FARR & GALLAGHER, LLP 787 Seventh Ave. New York, New York 10019 (212) 728-8000 (212) 728-8111 Fax FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE PE PATENT AND TRADEMARK OF THE ATTY. DOCKET NO. 114596-16-4004C

SERIAL NO. 09/429,094RE

APPLICANT

John S. Yates, Jr., et al.

OCT 3 0 2003

(Use several sheets if necessary)

FILING DATE

GROUP ART UNIT

2 4 2003	(Use several sheets if	necessary)	October 28, 199	9	2155	Technology Center
,	ij	U.S. PAT	ENT DOCUMENTS			Teomology ochici
MAMINER NO. 17 P.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	3,544,969	12/01/1970	Rakoczi	340	172.5	Nov. 27, 1967
	4,455,602	06/19/1984	Baxter	364	200	May 22, 981
	4,514,803	04/30/1985	Agnew	364	200	Apr. 26 1982
	4,575,797	03/11/1986	Gruner	364	200	May 22, 1981
	4,779,187	10/18/1988	Letwin	712	229	Apr. 10, 1985
	5,115,500	05/19/1992	Larsen	711	202	Jan. 11, 1988
	5,155,835	10/13/1992	Belsan	711	114	Nov. 19, 1990
	5,241,664	08/31/1993	Ohba	711	121	Jan. 7, 1991
	5,241,638	08/31/1993	Mork	711	207	Aug. 12, 1995
	5,301,287	04/05/1994	Herrell	711	202	Feb. 16, 1993
	5,335,331	08/02/1994	Murao	712	203	Jul. 12, 1991
	5,361,340	11/01/1994	Kelly	711	3	Mar. 9, 1993
	5,454,117	09/26/1995	Puziol	395	800	Aug. 25, 1993
	5,481,693	01/02/1996	Blomgren	712	225	Jul. 20, 1994
	5,542,059	07/30/1996	Blomgren	395	375	Dec. 21, 1994
	5,542,109	07/30/1996	Blomgren	395	800	Aug. 31, 1994
	5,560,013	09/24/1996	Scalzi	717	138	Dec. 6, 1994
	5,568,646	10/22/1996	Jaggar	712	209	Sep. 19, 1994
	5,574,927	11/12/1996	Scantlin	395	800	Nov. 12, 1996
	5,598,546	01/28/1997	Blomgren	712	209	Aug. 31, 1994
	5,608,886	03/04/1997	Blomgren	395	586	Aug. 31, 1994
	5,619,666	04/08/1997	Coon	712	209	Jun. 2, 1995
	5,628,016	05/06/1997	Kukol	717	140	June 15, 1994
	5,659,679	08/19/1997	Alpert	395	183.1	May 30, 1995
	5,685,009	11/04/1997	Blomgren	395	800	Nov. 29, 1995
	5,715,421	02/03/1998	Akiyama	711	213	Oct. 16, 1992
	5,768,500	6/16/1998	Agrawal	714	47	Jun. 20, 1994
	5,774,287	06/30/1998	Leonhardt	710	33	Dec. 9, 1994
	5,774,686	06/30/1998	Hammond	395	385	Jun. 7, 1995
	5,781,758	07/14/1998	Morley	395	500	Mar. 23, 1995
	5,781,792	07/14/1998	Asghar	395	800.35	Mar. 18, 1996
	5,784,640	07/21/1998	Asghar	395	800.35	Mar. 18, 1996
	5,790,824	08/04/1998	Asghar	395	385	Mar. 18, 1996

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE CITATION

ATTY. DOCKET NO. 114596-16-4004C SERIAL NO. 09/429.094

APPLICANT

John S. Yates, Jr., et al.

OCT 3 0 2003

FILING DATE

GROUP ART INIT 2155 Technology Center 2100 (Use several sheets if necessary) October 28, 1999 U.S. PATENT DOCUMENTS FILING DATE IF APPROPRIATE EXAMINER INITIAL DOCUMENT NUMBER SUBCLASS DATE NAME CLASS 5,794,068 08/11/1998 Asghar 395 800.35 Mar. 18, 1996 5,796,939 08/18/1998 395 184.01 Berc Mar. 10, 1997 5,802,272 09/01/1998 Sites 395 183.21 Dec. 19, 1994 5,802,373 09/01/1998 Yates 717 139 Jan. 29, 1996 5,815,720 9/29/1998 717 Mar. 15, 1996 Buzbee 158 5,822,578 10/13/1998 Frank 395 591 June 5, 1995 5,832,205 11/03/1998 Kelly 395 185.06 Aug. 20, 1996 5,838,962 11/17/1998 Larson Apr. 9, 1997 395 586 5,838,978 11/17/1998 Buzbee 395 705 Oct. 9, 1996 395 707 Jan. 29, 1996 5,842,017 11/24/1998 Hookway 5,847,955 12/08/1998 Mitchell 700 86 Jun. 23, 1997 03/16/1999 395 375 5,884,057 Blomgren May 8, 1995 5,901,308 Cohn Mar. 18, 1996 05/04/1999 712 244 5,903,760 05/11/1999 Farber 395 707 Jun. 27, 1996 Klaiber 395 5,905,855 05/18/1999 183.07 Feb. 28, 1997 5,930,509 07/27/1999 Yates 395 707 Jan. 29, 1996 710 5 5,935,220 08/10/1999 Lumpkin Aug. 9, 1996 Lin Jun. 16, 1997 5,949,415 09/07/1999 345 335 5,958,047 09/28/1999 Panwar 712 237 Jun. 25, 1997 714 Jul. 24, 1996 5,958,061 09/28/1999 Kelly 1 5,968,162 10/19/1999 Yard 712 203 Apr. 2, 1996 12/07/1999 5,999,736 Gupta 717 158 May 9, 1997 6,000,028 12/07/1999 Chernoff 712 Jan. 29, 1996 226 Alexander 717 6,002,872 12/14/1999 127 Mar. 31, 1998 6,003,038 Chen 103R 12/14/1999 707 March 31, 1997 6,005,551 12/21/1999 Osborne 345 161 Apr. 25, 1997 6,006,029 12/21/1999 Bianchi 395 500.45 Sept. 28, 1993 6,011,908 01/04/2000 Wing 395 182.17 Dec. 23, 1996 6,014,735 01/11/2000 Chennupaty 712 210 Mar. 31, 1998 Nevill 712 6,021,265 02/01/2000 209 Apr. 14, 1997 6,021,489 02/01/2000 Poplingher 712 239 Jun. 30, 1997 02/15/2000 712 24 6,026,478 **Dowling** Dec. 23, 1997 **EXAMINER DATE CONSIDERED**

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

TNFORMATION DISCLOSURE CITATION

ATTY. DOCKET NO. 114596-16-4004C SERIAL NO. 09/429,09RECEIVED

APPLICANT

John S. Yates, Jr., et al.

OCT 3 0 2003

FILING DATE

GROUP ART UNIT (Use several sheets if necessary) Technology Center 2100 October 28, 1999 2155 U.S. PATENT DOCUMENTS FILING DATE
IF APPROPRIATE EXAMINER INITIAL SUBCLASS DOCUMENT NUMBER NAME CLASS DATE 717 6,029,004 02/22/2000 **Bortnikov** 158 Mar. 17, 1997 02/29/2000 Cmelik 6,031,992 395 705 Jul. 5, 1996 712 6,032,247 02/29/2000 Asghar 35 Nov. 14, 1997 712 6,035,393 03/07/2000 Glew 237 May 7, 1998 6,044,220 03/28/2000 **Breternitz** 717 139 Feb. 25, 1997 717 6,044,221 03/28/2000 Gupta 151 May 9, 1997 6,052,771 4/18/2000 Heller 712 34 Jan. 20, 1998 6,070,009 130 05/30/2000 Dean 717 Nov. 26, 1997 6,076,144 6/13/2000 Peled 711 125 Dec. 1, 1997 Nilsen 717 Dec. 19, 1997 6,081,665 06/27/2000 116 6,081,890 06/27/2000 Datta 713 1 Nov. 30, 1998 203 Re. 36,766 07/04/2000 Krauskopf 711 Aug. 21, 1992 6,119,204 9/12/2000 Chang 711 141 Jun. 30, 1998 10/31/2000 Kraml 709 220 Jan. 30, 1998 6,141,683 6,154,857 11/28/2000 Mann 714 30 Dec. 17, 1997 Gafken 710 27 Sep. 24, 1997 6,157,970 12/05/2000 6,163,764 12/19/2000 717 138 Oct. 12, 1998 Dulong 717 Dec. 9, 1997 6,175,957 01/16/2001 Ju 156 04/17/2001 Hammond 711 202 Mar. 25, 1998 6,219,774 717 6,226,789 05/01/2001 138 Jan. 29, 1996 Tye Dean 711 202 Nov. 26, 1997 6,237,073 05/22/2001 6,240,526 05/29/2001 Petivan 714 11 Oct. 27, 1999 6,253,215 06/26/2001 Agesen 707 206 Aug. 17, 1998 6,351,784 02/26/2002 Neal 710 308 Dec. 28, 1998 6,351,844 2/26/2002 Bala 717 128 Nov. 5, 1998 703 26 3/26/2002 Banning Oct. 13, 1999 6,363,336 6,374,369 04/16/2002 O'Donnell 714 38 May 21, 1999 05/28/2002 717 140 Oct. 28, 1999 6,397,379 Yates 6,405,327 06/11/2002 714 39 Aug. 19, 1998 Sipple 717 6,463,582 10/08/2002 Lethin 158 Oct. 21, 1998 Melchior 711 170 Jun. 16, 2000 6,473,846 10/29/2002 10/22/2002 6,470,442 Arimilli 712 32 Jul. 30, 1999 **DATE CONSIDERED EXAMINER**

ATTY. DOCKET NO. SERIAL NO. U.S. DEPARTMENT OF COMMERCE 09/429,094 114596-16-4004C PATENT AND TRADEMARK OFFICE APPLICANT MFORMATION DISCLOSURE CITATION John S. Yates, Jr., et al. FILING DATE GROUP ART UNIT (Use several sheets if necessary) October 28, 1999 2155 **U.S. PATENT DOCUMENTS** FILING DATE
IF APPROPRIATE EXAMINER INITIAL DOCUMENT NUMBER SUBCLASS DATE NAME CLASS 6,470,492 10/22/2002 Bala 717 128 May 14, 1999 6,477,683 11/05/2002 Killian 716 1 Feb. 5, 1999 6,480,862 11/12/2002 Gall 707 3 Apr. 23, 1999 6,496,922 12/17/2002 **Borrill** 712 209 Oct. 31, 1994 6,557,094 04/29/2003 Pechanek 712 209 Sep. 28, 2001 FOREIGN PATENT DOCUMENTS TRANSLATION DOCUMENT NUMBER DATE COUNTRY CLASS SUBCLASS YES 07/19/1989 **EPO** G06F 9/30 EP 0 324 308 Larsen 08/15/1996 PCT/US G06F WO 96/24895 Hammond 9/22 WO 98/13740 Wing 04/02/1998 PCT/US G06F RECEIVEL WO 98/28689 Wing 07/02/1998 PCT/US G06F 11/00 3 0 2003 OCT WO 98/38575 Klaiber 09/03/1998 PCT/US 11/00 G06F WO 98/59292 Cmelik 12/30/1998 PCT/US G06F 9/45 echnology Center 2100 PCT/US 11/00 WO 99/03037 Kelly 01/21/1999 G06F WO 99/08188 Kelly 02/18/1999 PCT/US G06F 11/00 WO 99/08191 Kelly 02/18/1999 PCT/US G06F 12/00 OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.) Burroughs, Preliminary Edition, B 1700 Systems Reference Manual, Burroughs Corporation (1972)Burroughs, B 1700 Systems Micro Implementation Language (MIL) Reference Manual, Burroughs Corporation (1973) Anton Chernoff, et al., FX!32, A Profile-Directed Binary Translator, IEEE Micro, Vol. 18 No. 2 pp. 56-64 (March/April, 1998) T.M. Conte, et al., "Accurate and practical profile-driven compilation using the profile buffer," Proceedings of the 29th Annual International Symposium on Microarchitecture, Paris, France, pp. 36-45 (Dec. 1996) T.M. Conte, et al., "Hardware based profiling: An effective technique for profile-driven optimization," International Journal of Parallel Programming, vol. 24, no. 2 (Feb. 1996)

DATE CONSIDERED

EXAMINER

ന്ത്ര DRM BT O-1449	U.S. DEPARTMENT OF COMMERCE	ATTY. DOCKET NO.	SERIAL NO. 09/429,094 RECEIV								
. 9.9/	PATENT AND TRADEMARK OFFICE	114596-16-4004C	09/429,094 NECEIV								
NFORMA'	TION DISCLOSURE CITATION	John S. Yates, Jr., et al.	OCT 3 0 2								
	(Use several sheets if necessary)	FILING DATE	GROUP ART UNIT_								
		October 28, 1999	2155 Technology Cent								
	OTHER DOCUMENTS (Including A	uthor, Title, Date, Pertinen	nt Papers, Etc.)								
	T.M. Conte, et al., "Using branch hand Proceedings of the 27 th Annual Interna (Dec. 1994)	tional Symposium on Micro	oarchitecture San Jose, CA								
		le-driven optimization." Proceedings of the 28 th Hawaii									
International Conference on System Sciences, vol. 1 Maui, HI, pp. 221-228 (Jan. 1995) Dean, ProfileMe: Hardware Support for Instruction-Level Profiling on Out-of-Order ProfileEE 1997, pp. 292-302 Digital Equipment Corp., White Paper: How DIGITAL FX!32 Works (September 1997) http://www.digital.com/semiconductor/amt/fx32/fx-white.htm											
							Ronald M. Guffin, Microdiagnostics for the Standard Computer MLP-900 Processor, IEEE Transactions on Computers, Vol. C-20 No. 7, pp. 803-808 (July 1971)				
						·	Linley Gwennap, MDR Technical Library Special Report, Intel's Merced and IA-64 Technolog and Market Forecast, IA-64 Software Model - Chapter 3 excerpt Microprocessor Report, MicroDesign Resources (July 20, 1998)				
	Linley Gwennap, MDR Technical Library Special Report, Intel's Merced and IA-64: Technolog and Market Forecast, Executive Summary, Microprocessor Report, MicroDesign Resources (Jul 20, 1998)										
Linley Gwennap, First Merced Patent Surfaces, Intel Document Reveals Processors W Instruction Sets, Microprocessor Report, MicroDesign Resources (July 20, 1998)											
	R.E. Hank, et al., Proceeding of the 28 th Annual International Symposium on Microarchitecture, pp. 158-168 (Dec. 1995)										
	Raymond J. Hookway, et al., Combining Emulation and Binary Translation (August 28, 1997) http://www.digital.com/info/DTJP01HM.HTM										
	Kavi et al., A Performability Model for Soft Real-Time Systems, IEEE Jan 1994										
Harold W. Lawson, Jr., et al., Functio Transactions on Computers, Vol. C-2			· · · · · · · · · · · · · · · · · · ·								
K.N.P. Menezes, "Hardware-based profiling for program optimization," Ph.D. thesis, Depa of Electrical and Computer Engineering, North Carolina State University, Raleigh, North (1997) Nanodata Corporation, QM-1 Hardware level User's Manual (1975) Nanodata Corporation, QM-2 Processor (1976)											
				Robert F. Rosin, Contemporary Concepts of Microprogramming and Emulation, Comp Surveys, Vol. 1 No. 4, pp. 197-212 (December 1969)			and Emulation, Computing				
					Robert F. Rosin, An Environment for I Communications of the ACM, Vol. 15						
EXAMINER	7	ATE CONSIDERED									

10,	- 4C/35
OCT 2	F. SIM F.
PHATA T	FORMPT
	INFO

	·					
FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 114596-16-4004C	SERIAL NO. 09/429,094			
INFORMAT	TION DISCLOSURE CITATION	John S. Yates, Jr., et al.	APPLICANT			
	(Use several sheets if necessary)	FILING DATE	GROUP ART UNIT			
		October 28, 1999	2155			
,	OTHER DOCUMENTS (Including	Author, Title, Date, Pertinent	Papers, Etc.)			
	Standard Computer Corp., IC-9000 C possibly 1969)	Central Processing Unit - Princ	iples of Operation (undated –			
	W.T. Wilner, Design of the Burrough (1972)	ns B1700, Fall Joint Computer	Conference, pp. 489-497			
	W.T. Wilner, Burroughs B1700 Men 586 (1972)	nory Utilization, Fall Joint Con	mputer Conference, pp. 579-			
			RECEIVED			
			OCT 3 0 2003			
			Technology Center 2100			
			····			
			-710-E			
		, <u>. </u>				
		· · · · · · · · · · · · · · · · · · ·				
EXAMINER		DATE CONSIDERED				